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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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## Complete if Known

Application Number 09/583,087  
Filing Date September 5, 2000  
First Named Inventor Shunpei YAMAZAKI  
Group Art Unit 2815  
Examiner Name J. Jackson, Jr.  
Attorney Docket Number 0756-2203

Sheet 1 of 1

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (if known)			
		5,289,300		Shunpei YAMAZAKI et al.	02/22/1994	

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		JP	04-042214		Shimone	02/12/1992		Abstract
		JP	04-186635		Sato	07/03/1992		Abstract

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Lewis et al., "Active Matrix Liquid Crystal Display Design Using Loa and High Temperature Processed Polysilicon TFTS", 1990, pp. 843-846, IEEE Ch. 2865, 34.1.1, IEDM 90	

Examiner Signature	Date Considered	10/01
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Applicants: Shunpei YAMAZAKI

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Group Art Unit:  
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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	2,819,191	01/07/1958	Fuller			
	4,697,887	10/06/1987	Okada et al.			
	5,261,153	11/16/1993	Lucas			
	5,274,279	12/28/1993	Misawa et al.			
	5,313,076	05/17/1994	Yamazaki et al.			
	5,341,012	08/23/1994	Misawa et al.			
	5,481,121	01/02/1996	Zhang et al.			
	5,583,347	12/10/1996	Misawa et al.			
	5,591,990	01/07/1997	Misawa et al.			
	5,616,936	04/01/1997	Misawa et al.			
	5,648,685	07/15/1997	Misawa et al.			
	5,656,826	08/12/1997	Misawa et al.			
	5,677,121	10/14/1997	Misawa et al.			
	5,712,495	01/27/1998	Suzawa			
	5,714,771	02/03/1998	Misawa et al.			
	5,744,824	04/28/1998	Kousai et al.			
	5,754,158	05/19/1998	Misawa et al.			
	5,780,872	07/14/1998	Misawa et al.			
	5,811,837	09/22/1998	Misawa et al.			
	5,851,440	12/22/1998	Tanaka et al.			
	5,904,511	05/18/1999	Misawa et al.			

FOREIGN PATENT DOCUMENTS

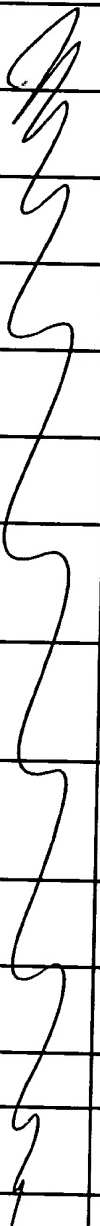
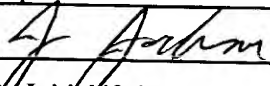
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	61-136262	06/24/1986	JP			Eng Abst
	62-115745	05/27/1987	JP			Eng Abst

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Form PTO-1449 (Rev. 8-83)		<b>RECEIVED</b> U.S. Department of Commerce Patent and Trademark Office		Attorney Docket N. 0756-2203	Serial N. <b>09/583087</b>	
<b>INFORMATION DISCLOSURE STATEMENT</b>				Applicant: Shunpei YAMAZAKI		
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<b>OFFICE OF PETITIONS</b>						
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	4,068,020*	01/1978	Reuschel			
	4,103,297*	07/1978	McGreivy et al.			
	4,239,346*	12/1980	Lloyd			
	4,363,828*	12/1982	Brodsky et al.			
	4,365,013*	12/1982	Ishioka et al.			
	4,378,417*	03/1983	Maruyama et al.			
	4,395,726*	07/1983	Maeguchi	257	351	
	4,460,670*	07/1984	Ogawa et al.			
	4,470,060*	09/1984	Yamazaki			
	4,500,388*	02/1985	Ohmura et al.			
	4,680,580*	01/1986	Tamura et al.			
	4,581,476*	04/1986	Yamazaki			
	4,581,620*	04/1986	Yamazaki	257	53	
	4,584,025*	04/1986	Takaoka et al.			
	4,591,892*	05/1986	Yamazaki			
	4,597,160*	07/1986	Ipri			
	4,621,276*	11/1986	Malhi			
	4,651,408	03/1987	MacElwee et al.			
	4,659,392*	04/1987	Vasudev			
	4,680,580*	07/1987	Kawahara			
4,690,717*	09/1987	Yamazaki				
4,693,759*	09/1987	Noguchi et al.				
4,729,009*	03/1988	Ang				
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<b>OFFICE OF PETITIONS</b>							
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
		VLSI Technology, Edited by S.M. Sze., McGraw-Hill Book Company, "Chapter 6 Dielectric and Polysilicon Film Deposition", A.C. Adams, pp. 233-235*					
		Scheid, et al., "Super Large Grain Polycrystalline Silicon Obtained From Pyrolysis of Si <sub>2</sub> H <sub>6</sub> and Annealing", Jap. J. appl. Phys., Vol. 29, No. 11, Nov. 1990, pp. L 2105-2107*					
		Blum et al., "Low Pressure CVD Process for Micro and Polycrystalline Silicon", IBM Technical Disclosure Bulletin, Vol. 26, No. 3A, Aug. 1983, pp. 921-922*					
		Madsen et al., "In Situ Doping of Silicon Films Prepared by Low Pressure Chemical Vapor Deposition Using Disilane and Phosphine", J. Electrochem. Soc., Col. 137, No. 7, July 1990, pp. 2246-2251*					
		Wolf et al., "Silicon Processing for the VLSI Era", Vol. 1: Process Technology, Lattice Press, Sunset Beach, CA (1986), pp. 175-176*					
		H. Ohshima et al., "Future Trends for TFT Integrated Circuits on Glass Substrates", IEDM (IEEE 1989), pp. 157-160*					
		Journal of Non-Crystalline Solids, Vols. 59, 60, Dec. 1983, Part II, pp. 731-734, Proceedings of the Xth International Conference on Amorphous and Liquid Semiconductors, Tokyo, Japan, Aug 22-26, 1983, C.C. Tsai et al.*					
		Solar Cells 2, (1980), "Investigation of the Hydrogen and Impurity Contents of Amorphous Silicon by Secondary Ion Mass Spectrometry", Charles MaGee and David E. Carlson, RCA Laboratories, Princeton, NJ pp. 365-376*					
		"The Physics of Hydrogenerated Amorphous Silicon I Structure, Preparation, and Devices", Edited by J.D. Joannopoulos and G. Lucovsky, Springer-Verlag, Berlin Heidelberg, New York, Tokyo 1984, pp. 8-9 & 34-41*					
		Hatalis et al., "High-Performance Thin Film Transistors in Low-Temperature Crystallized LPCVD Amorphous Silicon Films," IEEE Electron Device Letters, Vol. EDL-8, No. 8, Aug. 1987, pp. 161-164*					
"(Invited) Amorphous Silicon Transistors and Integrated Circuits", Masakiyo Matsumura, Japanese Journal of Applied Physics, Vol. 22 (1983), Supplement 22-1, pp. 487-491*							
"Color Liquid Crystal Display", Shunsuke Kobayashi, Dec. 14, 1990, pp. 162-166*							
"An Active Matrix LCD With Integrated Driver Circuits Using a Si TFTs", M. Aklyama et al., Japan Display, pp. 212-215*							
Examiner 				Date Considered 10/01			
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\*Reference cited in parent application S.N. 08/962,601

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<b>FOREIGN PATENT DOCUMENTS</b>							
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
4	1-130131*	06/1989	JP			Abstract	
	1-156725*	06/1989	JP			Full	
	1-223719*	09/1989	JP			Abstract	
	1-289917*	10/1989	JP			Abstract	
	1-289917*	11/1989	JP			Abstract	
	2-51129*	02/1990	JP			Abstract	
	2-90531*	03/1990	JP			Abstract	
	2-62077*	03/1990	JP			Abstract	
	2-115824*	04/1990	JP			Abstract	
	2-103925*	09/1990	JP			Abstract	
	2-137822*	05/1990	JP			Abstract	
	2-174170	07/1990	JP			Abstract	
	2-188723*	07/1990	JP			Abstract	
	2-201967	08/1990	JP			Abstract	
	2-210330*	08/1990	JP			Abstract	
	2-207537*	08/1990	JP			Abstract	
	2-208943	08/1990	JP			Abstract	
	2-217826*	08/1990	JP			Abstract	
2-234134*	09/1990	JP			Full		
2-223912*	09/1990	JP			Abstract		
2-251992*	10/1990	JP			Full		
Examiner <i>A. Jordan</i>			Date Considered 10/01				
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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	59-072128*	06/1986	JP			Full	
	59-115574*	07/1984	JP			Full	
	60-245174*	12/1985	JP			Full	
	60-245173*	12/1985	JP			Abstract	
	60-245172*	12/1985	JP			Full	
	61- 04021*	01/1986	JP			Abstract	
	61-126595*	06/1986	JP			Abstract	
	61-141174*	06/1986	JP			Full	
	62-126677*	06/1987	JP			Abstract	
	62-147759	07/01/87	JP			Abstract	
	62-160425*	07/1987	JP			Abstract	
	63-96636*	04/1988	JP			Abstract	
	63-100777*	05/1988	JP			Abstract	
	63-219172*	09/1988	JP			Abstract	
	63-237571*	10/1988	JP			Abstract	
	63-237570*	10/1988	JP			Abstract	
	63-29729	02/08/88	JP			Abstract	
	1-30272*	02/1989	JP			Abstract	
	64-68724*	03/1989	JP			Abstract	
	64-68724*	03/1989	JP			Abstract	
	1-107237*	04/1989	JP				X
	1-128534*	05/1989	JP			Abstract	

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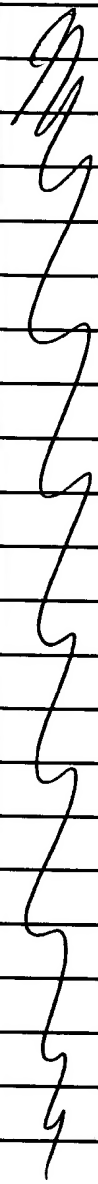
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	Document Number	Date	Country	Class	Subclass	Translation	
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	0 161 555*	11/1985	EP				
	0 321 073*	06/1989	EP				
	0 337 457	10/18/89	EP				
	49-77537*	07/1974	JP				X
	53-144297*	12/1978	JP			Abstract	
	55-011329*	01/1980	JP			Full	
	55-32026*	03/1980	JP			Full	
	55-029154*	03/1980	JP			Full	
	55-050664*	04/1980	JP			Full	
	55-050663*	04/1980	JP			Full	
	55-82458*	06/1980	JP			Abstract	
	57-099729*	06/1982	JP			Abstract	
	58-27364*	02/1983	JP			Full	
	58-74080	05/04/83	JP			Full	
	58-092217*	06/1983	JP			Full	
	58-155773*	06/1983	JP			Full	
	58-155774*	09/1983	JP			Full	
	58-161380*	09/1983	JP			Full	
	58-182816*	10/1983	JP			Abstract	
	59-035488*	02/1984	JP			Full	
	59-035423*	02/1984	JP			Full	
	59-072182*	04/1984	JP			Full	

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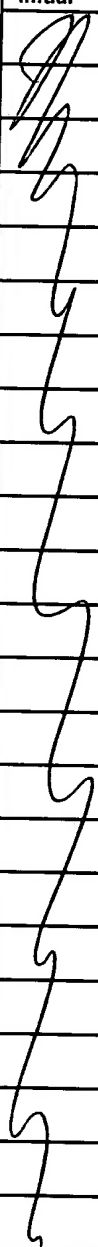
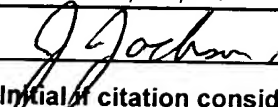
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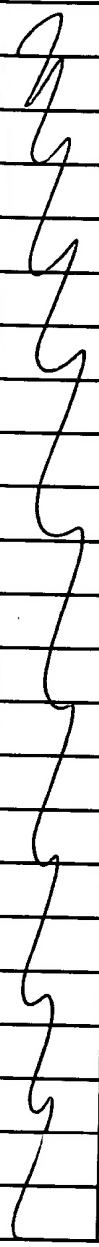
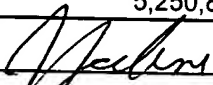
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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)	
	5,289,300*	10/1993	Misawa et al.				
	5,261,156*	11/1993	Mase et al.				
	5,270,224*	12/1993	Furumura et al.				
	5,270,567*	12/1993	Mori et al.				
	5,281,840*	01/1994	Sarma				
	5,287,205	02/1994	Yamazaki et al.				
	5,289,300*	02/1994	Yamazaki et al.				
	5,315,132*	05/1994	Yamazaki				
	5,327,001*	07/1994	Wakai et al.				
	5,349,204*	09/1994	Yamazaki				
	5,349,226*	09/1994	Kawaguchi et al.				
	5,372,958*	12/1994	Miyasaka et al.				
	5,383,041*	01/1995	Yamazaki et al.				
	5,402,041*	03/1995	Kishino et al.				
	5,404,175*	01/1995	Nagae et al.				
	5,418,636*	05/1995	Kawasaki				
	5,424,752*	06/1995	Yamazaki et al.				
	5,426,526*	06/1995	Yamamoto et al.				
	5,453,858*	09/1995	Yamazaki				
	5,500,538*	03/1996	Yamazaki et al.				
5,514,879*	05/1996	Yamazaki					
5,530,266*	06/1996	Yonehara et al.					
5,539,550*	07/1996	Spitzer et al.					
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	4,986,213*	01/1991	Yamazaki et al.				
	4,988,638	01/1991	Huang et al.				
	5,003,356*	03/1991	Wakai et al.				
	5,012,228*	04/1991	Masuda et al.				
	5,037,766*	08/1991	Wang				
	5,043,772*	08/1991	Yamazaki				
	5,051,570*	08/1991	Tsujikawa et al.				
	5,055,899*	10/1991	Wakai et al.				
	5,056,895*	10/1991	Kahn				
	5,057,889*	10/1991	Yamada et al.				
	5,057,898	10/1991	Adan et al.				
	5,065,208*	11/1991	Shah	257	770		
	5,012,228*	12/1991	Yamazaki				
	5,082,351*	01/1992	Ferguson				
	5,084,905*	01/1992	Sasaki et al.				
	5,132,754*	07/1992	Serikawa et al.				
	5,132,821*	07/1992	Someya et al.				
	5,132,821*	07/1992	Nicholas				
	5,148,301	09/1992	Sawatsubashi et al.				
	5,151,689*	09/1992	Kabuto et al.				
5,236,544*	08/1993	Yamagata					
5,247,191*	09/1993	Yamazaki et al.					
5,250,818*	10/1993	Saraswat et al.					
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	4,740,829*	04/1988	Nakagiri et al.				
	4,743,567*	05/1988	Pandya et al.				
	4,755,865*	07/1988	Wilson et al.				
	4,760,008*	07/1988	Yamazaki et al.				
	4,766,477*	08/1988	Nakagawa et al.				
	4,772,927*	05/1988	Saito et al.				
	4,795,679*	01/1989	Ramesh et al.				
	4,814,842*	03/1989	Nakagawa et al.				
	4,818,077*	03/1989	Ohwada et al.				
	4,838,654	06/1989	Hamaguchi et al.				
	4,849,797*	07/1989	Ukai et al.				
	4,860,069*	08/1989	Yamazaki				
	4,862,237*	08/1989	Morozumi				
	4,864,376*	09/1989	Aoki et al.				
	4,885,052*	12/1989	Fan et al.				
	4,888,305*	12/1989	Yamazaki et al.				
	4,891,330*	01/1990	Guha et al.				
	4,897,360*	01/1990	Guckel et al.				
	4,905,073*	07/1990	Chem				
	4,938,565*	07/1990	Ichikawa				
4,949,141*	08/1990	Busta					
4,951,113	08/1990	Huang et al.					
4,959,700*	09/1990	Yamazaki					
4,969,025*	11/1990	Yamamoto					
4,969,031*	11/1990	Kobayashi et al.					
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Serial No. 09/583,087

## INFORMATION DISCLOSURE STATEMENT

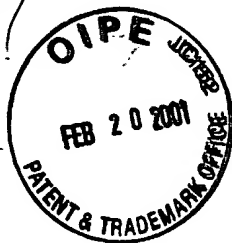
Applicants: Shunpei YAMAZAKI

Filing Date: September 05, 2000

Group Art Unit:  
Unassigned

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>[Signature]</i>	60-138909	07/23/1985	JP			Full Eng	
	60-245173	12/04/1985	JP			Full Eng	

Examiner *[Signature]*

Date Considered 10/01

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

02/13/2001